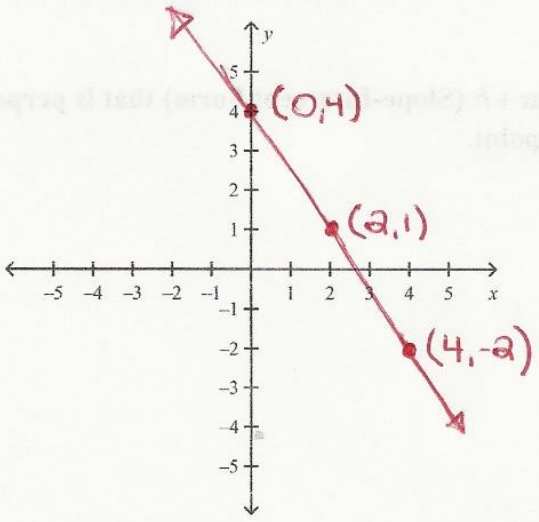
Name: _____ Class: _____ Date: _____ ID: A

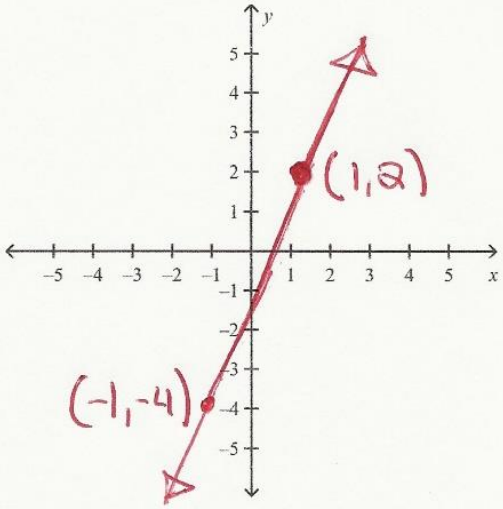
Lesson #9-3 Review Assignment-Creating Equations and Parallel and Perpendicular Lines (Reference: Lesson #41, #44, #49, #52 & #65 in book)

Problem

1. **For each of the following graphs, please create an equation in $y = mx + b$ (Slope-Intercept Form) that corresponds to information given.**



2.



3. **For each of the following create an equation in $y = mx + b$ (Slope-Intercept Form) using the two given points and the Point Slope Formula.**

   3. (3,7) and (5,11)

4. (-6,7) and (-9,8)

5. **For each of the following create an equation in $y = mx + b$ (Slope-Intercept Form) that is parallel to the given equation and passes through the given point.**

   5. $y = -\frac{1}{2}x - 9$ and passes through (6,-5)

6. $y = 3x + 8$ and passes through (-2,-3)

7. $y = -2x + 4$ and passes through (3,-4)

8. **For each of the following creat an equation in $y = mx + b$ (Slope-Intercept Form) that is perpendicular to the given equation and passes through the given point.**

   8. $y = -3x + 2$ and passes through (-6,2)

9. $y = \frac{1}{4}x - 7$ and passes through (-1,3)

10. $y = -\frac{2}{3}x - 5$ and passes through (2,5)